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1	US 20050013348 A1	20050120	14	Sub-optimal iterative receiver method and system for a high-bit-rate cdma transmission system	375/148
2	US 20040261002 A1	20041223	37	Iterative decoder employing multiple external code error checks to lower the error floor	714/786
3	US 20040258025 A1	20041223	14	Wireless lan compatible multi-input multi-output system	370/334
4	US 20040237025 A1	20041125	25	Reduced-latency soft-in/soft-out module	714/796
5	US 20040234004 A1	20041125	22	Time-domain transmit and receive processing with channel eigen-mode decomposition for MIMO systems	375/267
6	US 20040225949 A1	20041111	32	Method and apparatus for implementing a data processor adapted for turbo decoding	714/796
7	US 20040205446 A1	20041014	26	Decoding apparatus, decoding method, recording/reproducing apparatus, program storage medium, and program	714/792
8	US 20040196935 A1	20041007	16	Method and apparatus for iteratively improving the performance of coded and interleaved communication systems	375/350
9	US 20040184398 A1	20040923	28	Transmission mode selection for data transmission in a multi-channel communication system	370/203
10	US 20040161059 A1	20040819	20	Signal estimation methods and apparatus	375/341
11	US 20040151259 A1	20040805	13	Method of decoding a turbo-code encoded signal in a receiver and corresponding receiver	375/340
12	US 20040132416 A1	20040708	21	Equalisation apparatus and methods	455/82
13	US 20040128696 A1	20040701	19	Turbo coding for upstream and downstream transmission in cable systems	725/111
14	US 20040083082 A1	20040429	15	Iterative detection in MIMO systems	703/2
15	US 20040081074 A1	20040429	28	Signal decoding methods and apparatus	370/206
16	US 20040047438 A1	20040311	9	Coding-assisted MIMO joint detection and decoding	375/340

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1	375/348	Visoz, Raphael et al.
2		Eidson, Donald Brian et al.
3	370/204	Li, Jian et al.
4		Beerel, Peter A. et al.
5		Ketchum, John W. et al.
6		Coombs, Robert et al.
7		Yamagishi, Hiroyuki
8		Nieto, John Wesley
9	370/332	Walton, Jay Rod et al.
10		Andrieu, Christophe
11	455/456. 1; 714/755	Berens, Friedbert et al.
12	455/121; 455/19	Yee, Mong Suan
13		Bhaskaran, Ravi et al.
14		Onggosanusi, Eko N. et al.
15		Piechocki, Robert Jan
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17	US 20040022336 A1	20040205	15	Turbo decoder with partial interference cancellation	375/346
18	US 20040015773 A1	20040122	19	High speed arithmetic operations for use in turbo decoders	714/786
19	US 20030236080 A1	20031225	34	Rate control for multi-channel communication systems	455/226.1
20	US 20030235147 A1	20031225	28	Diversity transmission modes for MIMO OFDM communication systems	370/204
21	US 20030138065 A1	20030724	18	Power and confidence ordered low complexity soft turbomud with voting system	375/346
22	US 20030125040 A1	20030703	72	Multiple-access multiple-input multiple-output (MIMO) communication system	455/454
23	US 20030108117 A1	20030612	22	Time-domain transmit and receive processing with channel eigen-mode decompositon for MIMO systems	375/295
24	US 20030101407 A1	20030529	19	Selectable complexity turbo coding system	714/774
25	US 20030101402 A1	20030529	17	Hard-output iterative decoder	714/755
26	US 20030072291 A1	20030417	14	Multi-user detection method for a receiver in a MC-CDMA telecommunication system	370/342
27	US 20030066020 A1	20030403	31	Recording and reproducing apparatus, signal decoding circuit, error correction method and iterative decoder	714/794
28	US 20030043487 A1	20030306	31	Recording and reproducing apparatus, signal decoding circuit, error correction method and iterative decoder	360/25
29	US 20030030930 A1	20030213	25	Information recording and reproducing apparatus signal decoding circuit, and information recording medium and method	360/48
30	US 20030007577 A1	20030109	18	Turbo decoder with multiple scale selections	375/341
31	US 20020184596 A1	20021205	11	Iteration terminating using quality index criteria of turbo codes	714/794
32	US 20020174376 A1	20021121	15	Method, apparatus, and article of manufacture for error detection and channel management in a communication system	714/4

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<b>18</b>		D'Arcy, Paul Gerard et al.
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<b>20</b>	370/342	Walton, Jay R. et al.
<b>21</b>	375/340	Mills, Diane G. et al.
<b>22</b>	455/450	Walton, Jay R. et al.
<b>23</b>	375/346	Ketchum, John W. et al.
<b>24</b>		Ariel, Meir et al.
<b>25</b>	714/786	Amrani, Ofer et al.
<b>26</b>		Brunel, Loic
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<b>28</b>		Morita, Toshihiko et al.
<b>29</b>	360/46; 360/51	Sugawara, Takao et al.
<b>30</b>	714/794	Shiu, Da-shan et al.
<b>31</b>		Dinc, Abdulkadir et al.
<b>32</b>		Classon, Brian K. et al.

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33	US 20020122507 A1	20020905	18	System for carrier phase tracking of multi-dimensional coded symbols	375/340
34	US 20020122423 A1	20020905	23	Method to improve performance and reduce complexity of turbo decoder	370/394
35	US 20020034261 A1	20020321	36	Rate n/n systematic, recursive convolutional encoder and corresponding decoder	375/298
36	US 20020029362 A1	20020307	43	METHOD AND APPARATUS FOR ENCODING AND DECODING A TURBO CODE IN AN INTEGRATED MODEM SYSTEM	714/752
37	US 20020021770 A1	20020221	29	Reduced-latency soft-in/soft-out module	375/340
38	US 20020015419 A1	20020207	23	Data transmission apparatus and method for an HARQ data communication system	370/468
39	US 20010054170 A1	20011220	19	Apparatus and method for performing parallel SISO decoding	714/796
40	US 20010052104 A1	20011213	13	Iteration terminating using quality index criteria of turbo codes	714/792
41	US 20010025358 A1	20010927	37	Iterative decoder employing multiple external code error checks to lower the error floor	714/752
42	US 20010016932 A1	20010823	13	Apparatus and method for performing SISO decoding	714/790
43	US 6829313 B1	20041207	20	Sliding window turbo decoder	375/341
44	US 6826722 B2	20041130	33	Method and apparatus for reproducing data and method and apparatus for recording and/or reproducing data	714/752
45	US 6813743 B1	20041102	16	Sliding window technique for map decoders	714/795
46	US 6810502 B2	20041026	35	Iterative decoder employing multiple external code error checks to lower the error floor	714/786
47	US 6798593 B2	20040928	28	Method and apparatus for reproducing data and method and apparatus for recording and/or reproducing data	360/53
48	US 6795512 B1	20040921	21	System for carrier phase tracking of coded symbols using reliability metrics for symbol estimates	375/341

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35		Eidson, Donald Brian et al.
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37		Beerel, Peter A. et al.
38	370/477; 370/538	Kim, Min-Goo et al.
39		Chass, Amir et al.
40		Xu, Shuzhan J. et al.
41	714/792; 714/796	Eidson, Donald Brian et al.
42	375/265; 714/796	Tarrab, Moshe et al.
43	375/262; 375/265; 714/795	Xu; Shuzhan J.
44		Miyauchi; Toshiyuki et al.
45	375/341; 714/755; 714/786	Eidson; Donald Brian
46	714/792	Eidson; Donald Brian et al.
47		Hattori; Masayuki et al.
48	375/262	Eidson; Donald Brian et al.

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49	US 6763494 B2	20040713	27	Turbo product code decoder	714/780
50	US 6760388 B2	20040706	21	Time-domain transmit and receive processing with channel eigen-mode decomposition for MIMO systems	375/295
51	US 6757337 B2	20040629	9	Coding-assisted MIMO joint detection and decoding	375/267
52	US 6744580 B2	20040601	22	Method and apparatus for reproducing data and method and apparatus for recording and/or reproducing data	360/40
53	US 6738948 B2	20040518	11	Iteration terminating using quality index criteria of turbo codes	714/794
54	US 6732321 B2	20040504	14	Method, apparatus, and article of manufacture for error detection and channel management in a communication system	714/774
55	US 6718504 B1	20040406	31	Method and apparatus for implementing a data processor adapted for turbo decoding	714/755
56	US 6704376 B2	20040309	18	Power and confidence ordered low complexity soft turbomud with voting system	375/341
57	US 6697986 B2	20040224	22	Data transmission apparatus and method for an HARQ data communication system	714/751
58	US 6690737 B1	20040210	11	Device and method for determining maximum likelihood state in a decoding device	375/265
59	US 6671852 B1	20031230	9	Syndrome assisted iterative decoder for turbo codes	714/793
60	US 6526538 B1	20030225	27	Turbo product code decoder	714/780
61	US 6484283 B2	20021119	41	Method and apparatus for encoding and decoding a turbo code in an integrated modem system	714/786
62	US 6452979 B1	20020917	14	Soft output decoder for convolutional codes	375/265
63	US 6393076 B1	20020521	13	Decoding of turbo codes using data scaling	375/341
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<b>50</b>		Ketchum; John W. et al.
<b>51</b>	375/240	Zhuang; Xiangyang et al.
<b>52</b>	360/39; 360/55; 714/792; 714/796	Hattori; Masayuki et al.
<b>53</b>		Dinc; Abdulkadir et al.
<b>54</b>	714/780; 714/794	Classon; Brian K. et al.
<b>55</b>		Coombs; Robert et al.
<b>56</b>		Mills; Diane G. et al.
<b>57</b>	714/758	Kim; Min-Goo et al.
<b>58</b>	375/262	Kim; Min-Goo
<b>59</b>	714/780	Ariel; Meir et al.
<b>60</b>	375/262; 714/777	Hewitt; Eric
<b>61</b>		Stephen; Karen J. et al.
<b>62</b>	375/341; 714/795	Ariel; Meir et al.
<b>63</b>		Dinc; Abdulkadir et al.
<b>64</b>	375/233; 714/786; 714/794	Yu; Xiaoyong et al.



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65	US 20020122507 A	20020905	18	Multi-dimensional coded symbol carrier phase tracking system for set-top box, determines composite residual or prescribed function for multi-dimensional symbol based on estimate of multi-dimensional symbol	

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65		EIDSON, D B